



Parallel Algorithm For Matrix Solving Problem

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APPROVAL AND RATIFICATION PAGE

PROJECT REPORT

PARALLEL ALGORITHM FOR MATRIX SOLVING PROBLEM

This Project Report has been approved and ratified by Dean of Computer Science Faculty on January 17th, 2011

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STATEMENT OF ORIGINALITY

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Here by certify that this project was made by my self and not copy or plagiarizes from other people, except that in writing expressed to the other article.

If it is proven that this project was plagiarizes or copy the other, I'm ready to accept a sanction.

Semarang, January 14th, 2011

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ABSTRACT

A Matrix is a rectangular array, one item from matrix called entry or an element. Component Matrix consisting of columns and rows. Entries often denoted by a variable with two subscripts as shown on the right. Matrix with the same size can be added, or subtracted entrywise and matrices of size compatible can be multiplied. When you add up the matrices of dimension less than 5, will be felt easily done without any help. But id more than 5 dimension would be more difficult because a lot of cell matrices.

In this case, multithread programming will be applied to manage the added or subtracted matrix, because it will be more efficient than a normal procedure operational matrices, also minimize the work of computer memory.

This project is created with Java language programming. This project uses Array as a data structure. Matrix case can be solve with parallel algorithm. Parallel programming performed by running the same process multiple times, and that applied with Multi-Thread to process each cells of matrix.

Keyword : *Multithread, Parallel-algorithm.*

FOREWORD

Finally, I can finish my final project that have title : Matrix solving problem with parallel algorithm. I couldn't finish this project and report without help from God and a lot of people. So in this opportunity, I would like to thanks :

1. My Lord and my saviour, Jesus Christ that give me faith and courage to finish this project. You're love is amazing. I love You, God.
2. My special daddy, So Bun Liong and my best mommy Anastasia Herawati, and my sister, Charisa Desy, and my girl Vina Sugiarti for their support, love, and pray.
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Last, I would like to apologize if I made mistakes in finishing the project and writing this report. Therefore, critics and suggestions are expected.

Semarang, January 14th, 2011

Henrikus Andi I

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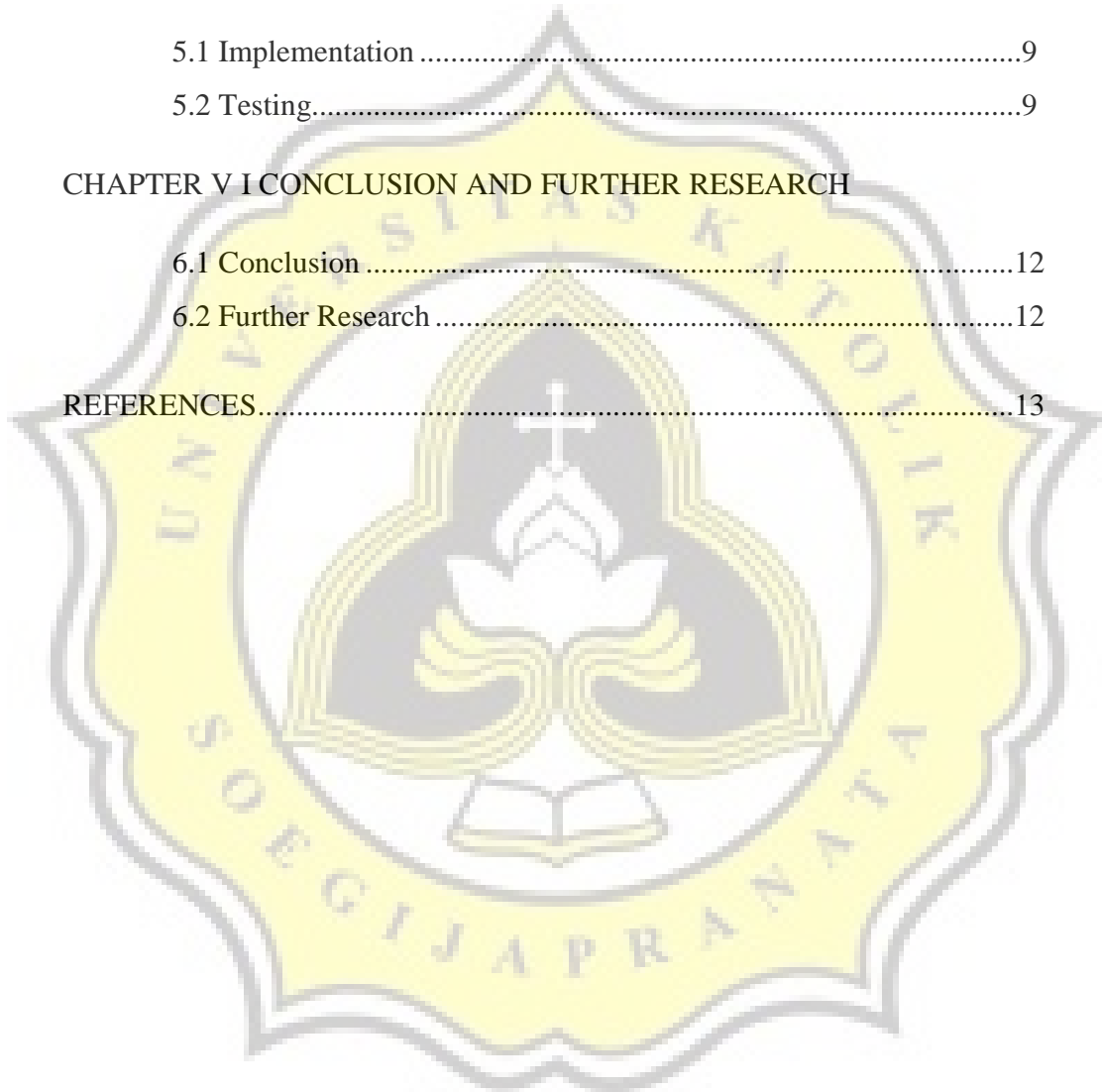


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